

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2005/001702

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC 7 E03C1/086 E03C1/08		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) IPC 7 E03C		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 630 455 A (RICHARD GRANT PARKISON) 28 December 1971 (1971-12-28) column 2, line 62 - line 72; figure 5	1,2,4,15
Y		11,12
X	EP 0 631 020 A (AMFAG S.R.L.; AMFAG S.P.A.) 28 December 1994 (1994-12-28) column 2, line 8 - line 54; figure 2	1,3-8,15
X	DE 200 10 099 U1 (DIETER WILDFANG GMBH) 17 August 2000 (2000-08-17) page 7, line 28 - page 11, line 28; figures	1,3,6,7, 9,10,14
	-/-	
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents : "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "Z" document member of the same patent family		
Date of the actual completion of the international search 26 May 2005		Date of mailing of the international search report 02/06/2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax (+31-70) 340-3016		Authorized officer De Coene, P

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 98/16693 A (DIETER WILDFANG GMBH; GRETHER, HERMANN; WEIS, CHRISTOPH) 23 April 1998 (1998-04-23) page 11, line 27 - page 19, line 18; figures -----	1,2,7,9, 10,13-15
Y	CH 380 042 A (AKTIENGESELLSCHAFT KARRER, WEBER & CIE, ARMATURENFABRIK UND METALLGIES) 15 July 1964 (1964-07-15) page 2, line 1 - line 95; figures -----	11,12
A	GB 336 200 A (GEORGE ANSON SLATER) 6 October 1930 (1930-10-06) page 2, line 78 - line 103; figures -----	1,15

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2005/001702

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
/ US 3630455	A	28-12-1971	DE 2050749 A1 FR 2072695 A5	21-10-1971 24-09-1971
/ EP 0631020	A	28-12-1994	IT MN930015 U1 DE 69419210 D1 DE 69419210 T2 EP 0631020 A1 ES 2132275 T3 US 5467929 A	20-10-1994 29-07-1999 14-10-1999 28-12-1994 16-08-1999 21-11-1995
/ DE 20010099	U1	17-08-2000	NONE	
WO 9816693	A	23-04-1998	AT 211206 T AU 1926797 A AU 713927 B2 AU 4781697 A BR 9713257 A DE 29704286 U1 DE 29718727 U1 DE 59705910 D1 DK 931198 T3 WO 9816693 A1 WO 9816694 A1 EP 0931198 A1 ES 2170369 T3 JP 2001502026 T KR 2000049069 A US 6126093 A	15-01-2002 11-05-1998 16-12-1999 11-05-1998 03-11-1999 30-04-1997 20-11-1997 31-01-2002 15-04-2002 23-04-1998 23-04-1998 28-07-1999 01-08-2002 13-02-2001 25-07-2000 03-10-2000
/ CH 380042	A	15-07-1964	NONE	
/ GB 336200	A	06-10-1930	NONE	